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Drought Tolerant Corn Strip Trial

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Drought Tolerant Corn Strip Trial

Abstract

The strip trial was designed to evaluate new drought tolerant corn hybrids for yield. Three of these drought tolerant hybrids were planted with other hybrids for comparison.

Keywords

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Drought Tolerant Corn Strip Trial

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Ralph Sandeen, Pioneer Hi-Bred

Introduction

The strip trial was designed to evaluate new drought tolerant corn hybrids for yield. Three of these drought tolerant hybrids were planted with other hybrids for comparison.

Materials and Methods

The study was planted where there were soybeans the previous year. Phosphorus and potassium levels were determined to be adequate, so neither of these fertilizers were applied. The soil pH was determined to be within an acceptable range, so no lime was applied. The area was field cultivated twice on April 13 and planted the same day. Each hybrid was planted in a non-replicated strip

across the field. The entire field was also side-dressed with 150 lb nitrogen/acre using liquid UAN.

Results and Discussion

Conditions were good at planting but turned cold and wet for two weeks after planting. All hybrids emerged well in May. Hot and dry conditions tested the hybrids for most of the summer.

All hybrids tested were Pioneer hybrids. The three drought tolerant hybrids were Optimum[®] AQUAmax[™] hybrids as shown in Figure 1.

Acknowledgements

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Drought Tolerant Corn Strip Trial - 2011

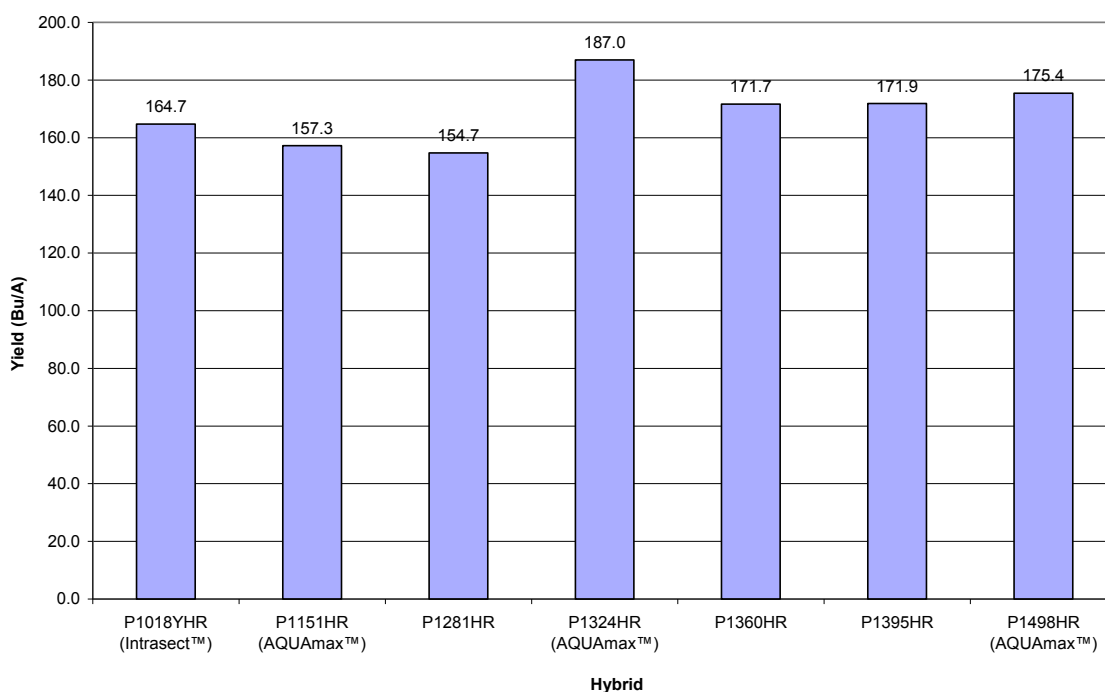


Figure 1. Corn yield hybrid, Southeast Research and Demonstration Farm.